IN THE SPECIFICATION:

Please insert new paragraph 0046 after original paragraph 0045. The following text of new paragraph 0046 was disclosed in the original filing; thus, no new matter has been added.

[0046] In addition, the embodiments of the invention provide a program storage device readable by computer, tangibly embodying a program of instructions executable by the computer to perform a method of incrementally maintaining algebraic functions in automatic summary tables (ASTs) of at least one relational database, said method comprising: associating a work area with each algebraic function in each AST; populating variables within each work area for each algebraic function when each AST is created and when each AST is updated; maintaining each work area by adding and subtracting to and from associated variables of each work area when associated data changes in said relational database; and computing each algebraic function.